



Cambria Environmental Technology, Inc.  
270 Perkins Street  
Sonoma, California 95476  
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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-27
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	05-Oct-04
LOCATION	2005 Guerneville Road, Santa Rosa, CA	DRILLING COMPLETED	08-Oct-04
PROJECT NUMBER	0815	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10" and 14"	SCREENED INTERVAL	35 to 45 fbg
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	13.5 ft (06-Oct-04)
REVIEWED BY	J. Neely, RG 6927	DEPTH TO WATER (Static)	NA
REMARKS	A 12.25" steel conductor casing was installed from 1 to 31 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GW		<b>ASPHALT</b>	0.3	
					SM		<b>Sandy GRAVEL (GW)</b> ; very dark gray (5Y 3/1); moist; 40% fine to coarse sand; 60% fine to coarse gravel.	1.0	
							<b>Clayey Silty Gravelly SAND (SM)</b> ; very dark gray (5Y 3/1); moist; 15% clay, 25% silt, 45% fine to coarse sand, 15% fine to coarse gravel.	4.0	
0.0	5 7 6			5	ML		<b>Clayey Sandy SILT (ML)</b> ; very dark gray (5Y 3/1); moist; 20% clay, 60% silt, 20% fine to coarse sand; low plasticity.	7.5	
6.2	7 10 11			10	SM		<b>Clayey Silty SAND (SM)</b> ; very dark gray (5Y 3/1); medium dense; moist; 15% clay, 30% silt, 50% fine to coarse sand, 5% fine to coarse gravel.	12.0	
18.7	11 13 19			15	SP		<b>SAND (SP)</b> ; dark olive brown (2.5Y 3/3); dense; wet; 5% silt, 95% fine to medium sand.	17.0	
0.0	6 7 7			20			<b>Clayey SILT (ML)</b> ; light olive brown (2.5Y 5/4); stiff; moist; 30% clay, 65% silt, 5% fine to coarse sand; low plasticity.		
0.0	5 7 7			25	ML		@ 23.5' - <b>Sandy SILT (ML)</b> ; olive brown (2.5Y 5/4); stiff; moist; 5% clay, 80% silt, 15% fine sand.		
0.0	3 5 7			30			@ 30' - <b>Clayey SILT (ML)</b> ; light olive brown (2.5Y 5/4); very stiff; moist; 20% clay, 75% silt, 5% fine to medium sand; low plasticity.		
0.0	7 7 9			35				33.0	
									Portland Type I/II
									Bentonite Seal
									Monterey Sand #2/12

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PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ftg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (ftg)	WELL DIAGRAM
0.0	11 14 12						<b>Gravelly SAND (SW)</b> ; dark yellowish brown (10YR 4/6); medium dense; moist to wet; 5% clay, 10% silt, 60% fine to coarse sand, 25% fine to coarse gravel. @ 37.5' - dense; wet.		
0.0	10 16 17				SW		@ 39' - light olive brown (2.5Y 5/4); very dense.		
0.0	10 29 23			40			@ 41' - olive brown (2.5Y 5/3); 5% clay, 5% silt, 55% fine to coarse sand, 35% fine to coarse sand.		
0.0	15 50-5"								
18	17 34 27							44.0	
18	17 34 40				GW		<b>Sandy GRAVEL (GW)</b> ; olive brown (2.5Y 4/4); very dense; wet; 5% clay, 5% silt, 35% fine to coarse sand, 55% fine to coarse gravel.	45.0	
16	14 12 12			45			<b>Sandy SILT (ML)</b> ; light olive brown (2.5Y 5/6); very stiff; moist to wet; 10% clay, 50% silt, 30% fine to coarse sand, 10% fine sand.		
3	6 5 4				ML		@ 47' - <b>Clayey Sandy SILT (ML)</b> ; light olive brown (2.5Y 5/4); stiff; moist to wet; 20% clay, 55% silt, 20% fine to coarse sand, 5% fine sand; medium plasticity.	48.0	
									4"-diam., 0.020" Slotted Schedule 40 PVC
									Bentonite Seal
									Bottom of Boring @ 48 ft